

TECHNICAL INFORMATION
AND
SERVICE DATA



RADIOOLA

MODEL 524-M

**FIVE VALVE, BROADCAST, A.C. OPERATED.
SUPERHETERODYNE**

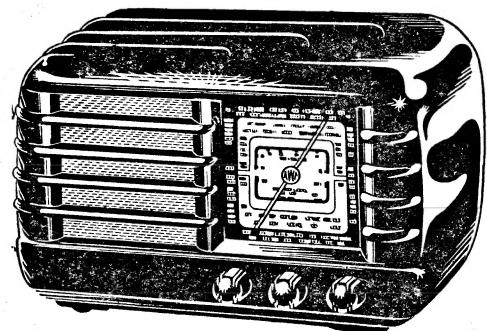
AND

MODEL 525-M

**FIVE VALVE, TWO BAND, A.C. OPERATED
SUPERHETERODYNE**

ISSUED BY

AMALGAMATED WIRELESS (A/SIA) LTD.



ELECTRICAL SPECIFICATIONS.

FREQUENCY RANGE: Model 524-M 540-1600 Kc/s
(555-187.5M)

Model 525-M 540-1600 Kc/s
(555-187.5M)
6-18 Mc/s
(50-16M)

INTERMEDIATE FREQUENCY 455 Kc/s

POWER SUPPLY RATING 200-260 volts,
50-60 C.P.S.

(Models are produced with other voltage and
frequency ratings.)

POWER CONSUMPTION 60 watts

VALVE COMPLEMENT

Model 524-M	(1) 6A8G	Converter
	(2) 6SK7GT	I.F. Amplifier
	(3) 6SQ7GT	Det., A.V.C. A.F. Amp.
	(4) 6V6GT/G	Output
	(5) 6X5GT	Rectifier
Model 525-M	(1) 6J8GA	Converter
	(2) 6SK7GT	I.F. Amplifier
	(3) 6SQ7GT	Det., A.V.C. A.F. Amp.
	(4) 6V6GT/G	Output
	(5) 6X5GT	Rectifier

LOUDSPEAKER:

5 inch—Code No. AA16
Transformer XA2
V.C. Impedance—3 ohms at 400 C.P.S.
Field—1000 ohms.

UNDISTORTED POWER OUTPUT: 3 watts

GENERAL DESCRIPTION.

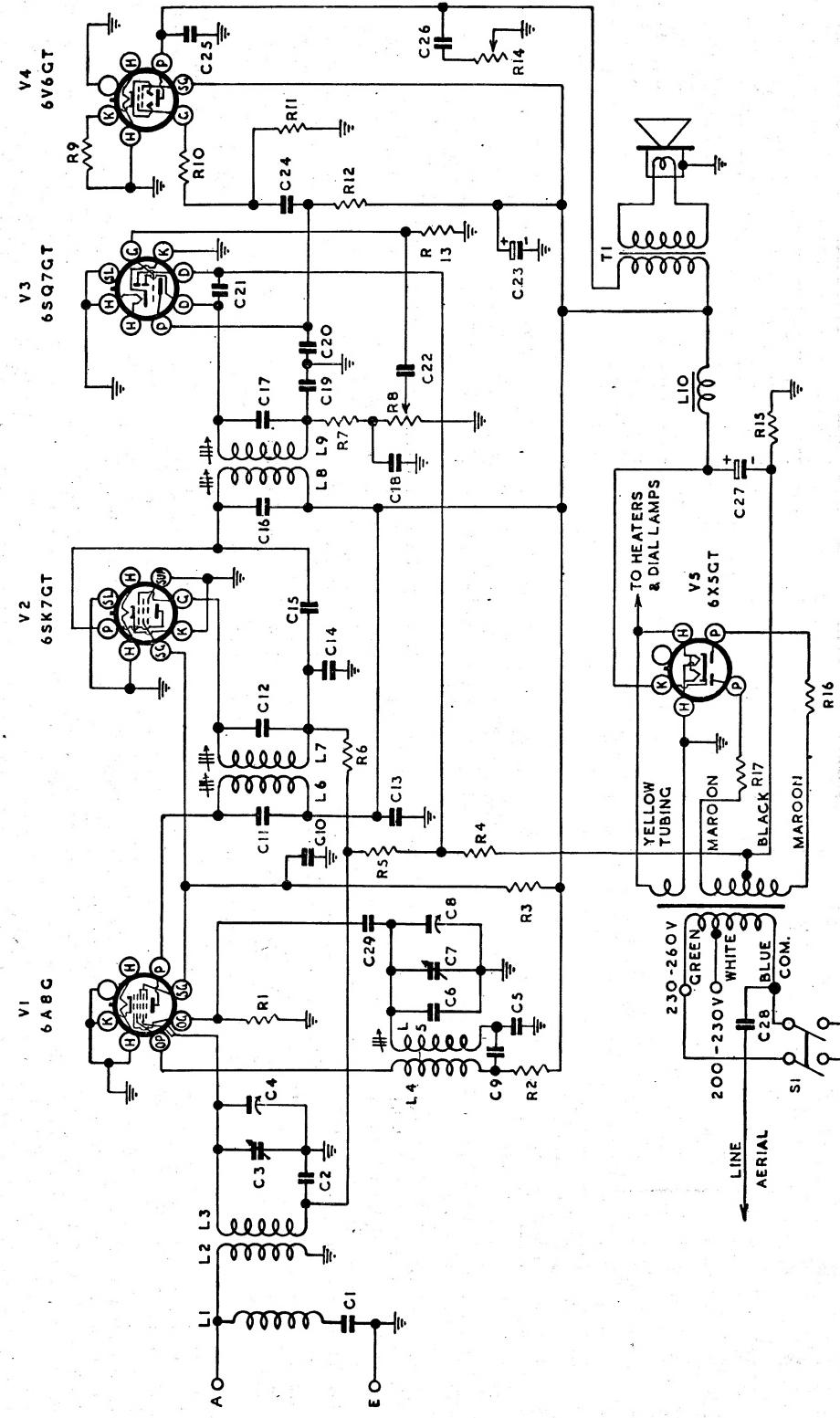
The models 524-M and 525-M are mantel models housed in attractively designed moulded cabinets, which are produced in three colours: Ivory, Walnut and Burgundy.

Features of design include: Tropic-proof construction, automatic volume control, magnetite cores in I.F. transformers and broadcast oscillator coils, air-dielectric trimming capacitors.

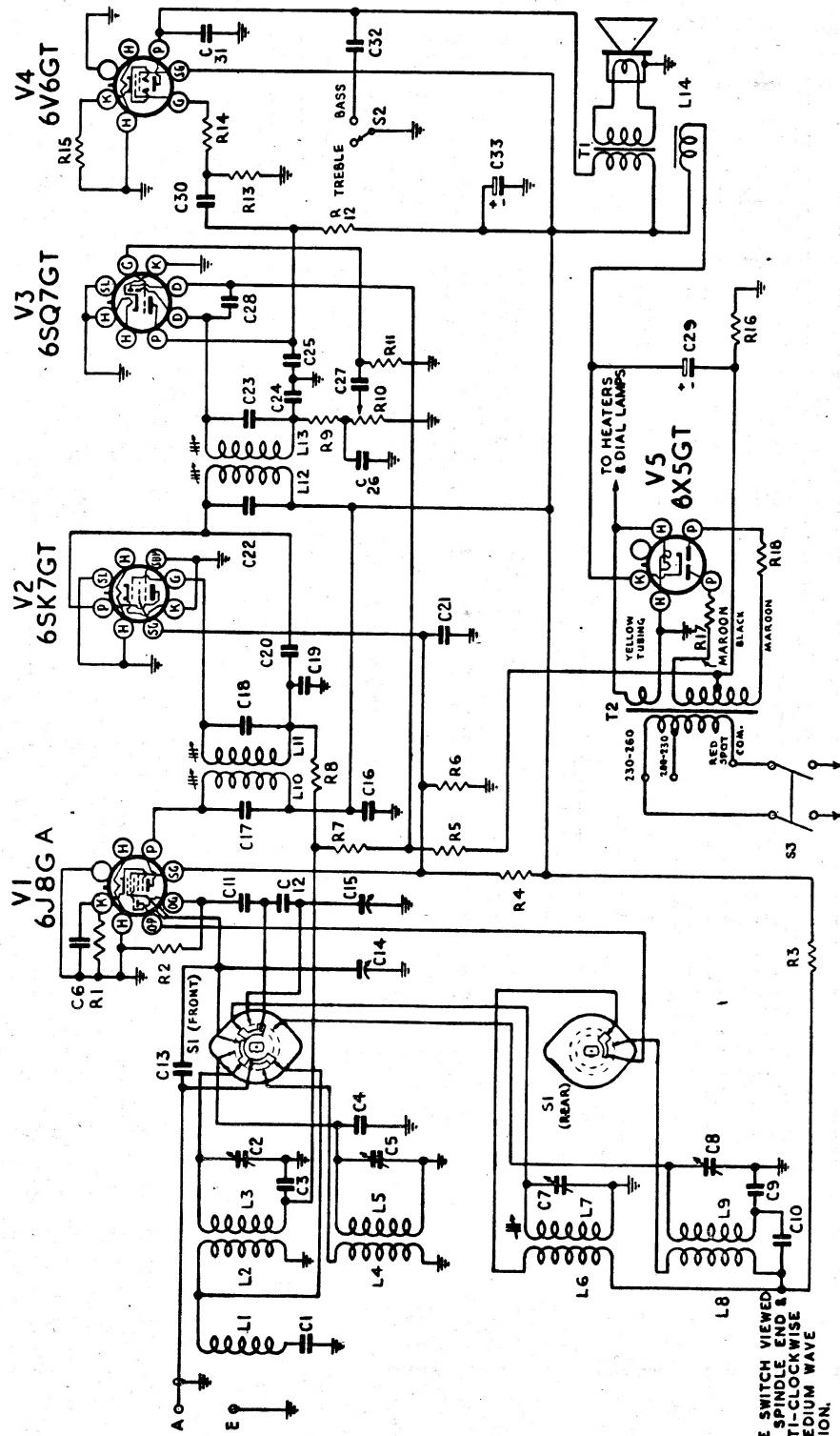
Electrically, model 524-M closely resembles the models

512-M/519-M, differences being in the addition of a power switch on the volume control (R8) and a capacity to mains aerial. (See circuit diagram and code.) For all other information, refer to the 512-M/519-M Service Manual.

Model 525-M is the same as model 518-M, except that the power switch is situated on the volume control (R10). Refer to the model 510-M Service Manual for all other information.



CIRCUIT CODE — RADIOLA 524-M.



CIRCUIT CODE — MODEL 525-M.

SOCKET VOLTAGES — MODEL 524-M.

Valve	Cathode to Chassis Volts	Screen Grid to Chassis Volts	Anode to Chassis Volts	Anode Current mA	Heater Volts
6A8G Converter	0	90	240	5.0	6.3
Oscillator	—	—	170	3.5	—
6SK7GT I.F. Amp.	0	90	240	8.0	6.3
6SQ7GT Det., A.V.C. A.F. Amp.	0	—	90*	0.6	6.3
6V6GT/G Output	13	240	225	35.0	6.3
6X5GT Rectifier	300	—	280 (A.C.)	—	6.3

Total H.T. Current—60 mA.

Volts across back-bias resistor R15—3.0

Measured at 240 volts A.C. supply. No signal input.

Volume/Power Control maximum clockwise. Voltmeter 1000 ohms per volt; measurements taken on highest scale giving accurate readable deflection.

*This reading may vary depending on the resistance of the voltmeter used.

SOCKET VOLTAGES — MODEL 525-M.

Valve	Cathode to Chassis Volts	Screen Grid to Chassis Volts	Anode to Chassis Volts	Anode Current mA	Heater Volts
6J8GA Converter M.W.	1.5	80	240	1.0	6.3
S.W.	2.0	80	240	1.3	—
Oscillator M.W.	—	—	115	5.0	—
S.W.	—	—	115	5.0	—
6SK7GT I.F. Amp.	0	80	240	6.0	6.3
6SQ7GT Det., A.V.C. A.F. Amp.	0	—	90*	0.6	6.3
6V6GT/G Output	13	240	225	35.0	6.3
6X5GT Rectifier	300	—	280 (A.C.)	—	6.3

Volts across back-bias resistor R16—3.0

Total H.T. Current—60 mA.

Measured at 240 volts A.C. supply. No signal input.

Volume/Power Control maximum clockwise. Voltmeter 1000 ohms per volt; measurements taken on highest scale giving accurate readable deflection.

*This reading may vary depending on the resistance of the voltmeter used.